

November 10, 2016

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
CPC, OPC, and WPC

Climate Prediction Center

The following accelerated items were implemented this past week:

RFC #783 – Modified the crontab for 'cpcfct.cf' to have some scripts kick off on a test VM. This was requested by NCO to allow for additional testing so two broken VMs may be returned to service. Implemented on November 7 at 2100Z.

The following will be implemented the week of November 14, 2016:

RFC #784 - WK34_VERIF v1.0.2 – Modify the WK34_VERIF application to create binary forecast hit/miss verification data in addition to images already produced. To be implemented on November 14 at 2000Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of November 14, 2016 may affect CPC:

RFC #2561 – An enhancement to NCEP's MAX (Mid-Atlantic Crossroads) router is being made. This will allow for 100G capability in the future. An outage to the R&D system of up to 30 minutes is possible with this work. To be implemented on November 17 at 1600Z.

The following NCO RFCs are in progress and may affect CPC:

None

Ocean Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of November 14, 2016:

None

The following will be implemented the week of November 21, 2016:

RFC #779 - The majority of OPC scripts use a table to lookup the OPC URL. The table will be expanded to include ftp and intranet addresses. Modify any scripts not using the table to do so. The URLs will not be changing in this RFC. To be implemented on November 21 at 1300Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of November 14, 2016 may affect OPC:

RFC #2546 – GFS MOS v5.0.0 – Upgrade of the GFS MOS. For specifics, see the TIN at: <http://www.nws.noaa.gov/os/notification/tin16-31mosupgradeaac.htm> . To be implemented on November 15 at 1300Z.

RFC #2547 – NBM v2.0.0, EKDMOS v2.0.0 – Upgrade of the National Blend of Models and EKDMOS. For specifics see the TINs at: <http://www.nws.noaa.gov/os/notification/tin16-33nbmv2aac.htm> and

<http://www.nws.noaa.gov/os/notification/tin16-32kdmosaab.htm> . To be implemented on November 15 at 1400Z.

RFC #2550 – RAP v3.0.7 – For the RAP, update the terrain file to smooth the southern boundary in South America, to prevent rap_forecast failures like those that occurred on Oct. 26 and 27. Update scripts 'extrap_post.sh.ecf' and 'rap_smartinit.sh' to run smartinit domains in parallel, which brings the run time back to what it was prior to the latest major upgrade. Correct a typo in script 'extrap_updatebc_pcyd.sh'. Add a trigger in the 1600Z and 0400Z 'rap_analysis_pcyd' job to keep the enkf file from updating when the job is running. To be implemented on November 15 at 1515Z.

RFC #2553 – Update the following decoders: dcamdr, dctama, dcasev, dcalps, dcusgs, and dc buoy. Specifics will be provided upon request. To be implemented on November 16 at 1315Z.

The following NCO RFCs are in progress and may affect OPC:

None

Weather Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of November 14, 2016:

RFC #785 – ENSQPFBC v2.0 – Make a change to allow WPC forecasters to view the upgraded version 2.0 of ENSQPFBC in parallel with the current ENSQPFBC. ENSQPFp and ENSQPFBCp will be added to the nmap2 selection lists. The parallel will continue to run on the testvm. To be implemented beginning on November 14 at 1200Z and should be completed by November 22.

RFC #786 - Install Anaconda Python distribution and run scripts to d/l shapefiles from WPC web, convert to geo json, and upload to the new/experimental National Forecast Chart webpage for GIS applications. To be implemented beginning on November 14 at 1200Z and should be completed by November 18.

RFC #787 - Upgrade the script 'wwdprob' to launch the 24-, 48- and 72-hr probabilistic product generation jobs to the compute farm rather than the local workstation. WFOs will now receive these grids with less latency. To be implemented beginning on November 14 at 2000Z and should be completed on November 18.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of November 14, 2016 may affect WPC:

RFC #2546 – GFS MOS v5.0.0 – Upgrade of the GFS MOS. For specifics, see the TIN at: <http://www.nws.noaa.gov/os/notification/tin16-31mosupgradeaac.htm> . To be implemented on November 15 at 1300Z.

RFC #2547 – NBM v2.0.0, EKDMOS v2.0.0 – Upgrade of the National Blend of Models and EKDMOS. For specifics see the TINs at: <http://www.nws.noaa.gov/os/notification/tin16-33nbmv2aac.htm> and <http://www.nws.noaa.gov/os/notification/tin16-32kdmosaab.htm> . To be implemented on November 15 at 1400Z.

RFC #2550 – RAP v3.0.7 – For the RAP, update the terrain file to smooth the southern boundary in South America, to prevent rap_forecast failures like those that occurred on Oct. 26 and 27. Update scripts 'exrap_post.sh.ecf' and 'rap_smartinit.sh' to run smartinit domains in parallel, which brings the run time back to what it was prior to the latest major upgrade. Correct a typo in script 'exrap_updatebc_pcyd.sh'. Add a trigger in the 1600Z and 0400Z 'rap_analysis_pcyd' job to keep the enkf file from updating when the job is running. To be implemented on November 15 at 1515Z.

RFC #2553 – Update the following decoders: dcamdr, dctama, dcasev, dcalps, dcusgs, and dc buoy. Specifics will be provided upon request. To be implemented on November 16 at 1315Z.

The following NCO RFCs are in progress and may affect WPC:

RFC #2496 – MRMS v11.0.3 – Update MRMS to include the following: for RIDGE2, increase geoTiff resolution for single radar products; update severe

weather algorithms; and implement Hydromet (previously HMRG) updates. Implementation began on November 1 at 1200Z and should be completed by 2100Z on November 23. Though work continues until November 23, MRMS v11.0.3 will be considered operational in Boulder as of November 15.

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncp-ncm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.

Users who wish to view their network utilization via the Scrutinizer appliance may request access from NCO/IWSB. Please send an account request to the NCWCP Helpdesk at NCWCP.helpdesk@noaa.gov.